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P	ATENT COOPERATION TREA	ATY			
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	INTERNATIONAL SEARCH REPORT	h	DATA		
	(PCT Article 18 and Rules 43 and 44)		ENTERED		
			FINAL CHECK		
Applicant's or agent's file reference	FOR FURTHER see Form PC	CT/ISA	1/220		
101377-1 WO	ACTION as well as, where app	рпсяот	e, item 5 bei	,w.	
International application No.	International filing date (day/month/year)	(Earl	liest) Priorit	ty Date (day	month year)
PCT/SE 2005/000156	7 February 2005	10	February	2004	
Applicant					
ASTRAZENECA AB et al					-
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This international search report has b	peen prepared by this International Searchin	ıg Au	thority and	is transmitte	ed to the
	copy is being transmitted to the Internationa				
This international search report consi	ists of a total of $b$ sheets.		•		
		. +1.i			·
It is also accompanied by	a copy of each prior art document cited in	uns i	eport.		
1. Basis of the report					
a. With regard to the language, th	ne international search was carried out on th	ie bas	sis of the int	ernational a	pplication
in the language in which it was	filed, unless otherwise indicated under this	item.			
The international sea	arch was carried out on the basis of a transl hority (Rule 23.1(b)).	ation	of the inter	national app	olication
	• •				
b. With regard to any nucleon No. I.	tide and/or amino acid sequence disclosed in	i the i	nternationa	1 аррисацоп	ı, see Box
	_				
2. Certain claims were found	l unsearchable (see Box No. II)				
3. Unity of invention is lacki	ing (see Box No. III)			-	
,	,				
4. With regard to the title,					
the text is approved as su	bmitted by the applicant.				
the text has been establish	ned by this Authority to read as follows:				
	4 ,				ı
Novel quinoline-c	arbaxamides as JAK3 kinase modula	ators			
	•				
e e					1
•					
E 1774					
5. With regard to the abstract,					
the text is approved as su	*	•.	•.		
applicant may, within one	ned, according to Rule 38.2(b), by this Author month from the date of mailing of this inte	ority :	as it appear onal search	report, subr	o. IV. The
comments to this Authori				F,	
6 With record to the duration	•				
6. With regard to the drawings,	markitati at aniat atau atauan a * 170 aa - 27				٠
a. the figure of the drawings to be as suggested by the a	published with the abstract is Figure No		_		4
	uthority, because the applicant failed to sugg	neet c	foure		ļ
<b></b>		_			
K-4	uthority, because this figure better character	nzes t	ne inventior	1.	l
b. none of the figures is to b	e published with the abstract.				

International application No. PCT/SE05/000156

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following re-	asons:
1. Claims Nos.: 21-22 because they relate to subject matter not required to be searched by this Authority, namely:  Claims 21-22 relate to a method of treatment of the human or	r
animal body by surgery or by therapy, as well as diagnostimethods /Rule 39.1(iv). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compounds.	c n
2. Claims Nos.: 1-3 because they relate to parts of the international application that do not comply with the prescribed requirements to so extent that no meaningful international search can be carried out, specifically:	uch an
Present claims 1-3 relate to an extremely large number of possible compounds. In fact, the claim contains so many possible permutations and provisos that a lack of clarity and conciseness within the meaning of Article 6 PCT arise to such an extent as to render a meaningful search of the claim impossible/	y đ h
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4	l(a).
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
1. As all required additional search fees were timely paid by the applicant, this international search report covers all	archable
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite per any additional fee.	ayment of
3. As only some of the required additional search fees were timely paid by the applicant, this international search report only those claims for which fees were paid, specifically claims Nos.:	rt covers
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	is
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.	

International application No. PCT/SE05/000156

BOY	47	2

Consequently, the search has been carried out for those parts of the application which appear to be clear and concise, namely those compounds recited in the examples 1-274

Form PCT/ISA/210 (extra sheet) (January 2004)

International application No.
PCT/SE 2005/000156

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The present invention relates to novel compounds which are JAK3 Kinase inhibitors, methods for their preparation and pharmaceutical compositions comprising them.

A compound of formula (I)

$$R^{1}$$
 $R^{2}$ 
 $R^{2}$ 
 $R^{2}$ 
 $R^{2}$ 
 $R^{3}$ 
 $R^{2}$ 
 $R^{2}$ 

 $\mathbf{T}$ 

or a pharmaceutically acceptable salt or solvate thereof, wherein X is -CHOH or -C=O;

International application No.

PCT/SE 2005/000156

### A. CLASSIFICATION OF SUBJECT MATTER

IPC7: CO7D 215/54, CO7D 401/12, CO7D 413/12, CO7D 417/12, A61K 31/47, A61P 37/00, A61P 11/06
According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

#### IPC7: CO7D, A61K, A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

#### SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## EPO-INTERNAL, WPI DATA, PAJ

	ILMAL, HI DATA, IAC	
c. Docu	MENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	EP 0480052 A1 (OTSUKA PHARMACEUTICAL CO.,), 15 April 1992 (15.04.1992), claims 1-18	1-23
	<del></del>	
х	WO 02092571 A1 (ASTRAZENECA AB), 21 November 2002 (21.11.2002), claims 1-16	1-23
	<del></del>	
X	EP 0259174 A1 (SMITH KLINE & FRENCH LABORATORIES LIMITED), 9 March 1988 (09.03.1988), claims 1-7	1-23
	<del></del>	
х	EP 0346208 A1 (SANOFI), 13 December 1989 (13.12.1989), claims 1-20	1-23
	<del></del>	

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
"A" document defining the general state of the art which is not considered to be of particular relevance					
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other	step when the document is taken alone				
special reason (as specified)	"Y" document of particular relevance: the claimed invention cannot be				
"O" document referring to an oral disclosure, use, exhibition or other means	considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art				
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family				
Date of the actual completion of the international search	Date of mailing of the international search report				
18 May 2005	<b>2 4</b> -05- 2005				
Name and mailing address of the ISA/	Authorized officer				
Swedish Patent Office					
Box 5055, S-102 42 STOCKHOLM	FERNANDO FARIETA/Els Telephone No. +46 8 782 25 00				
Facsimile No. +46 8 666 02 86					
Form PCT/ISA/210 (second sheet) (January 2004)					

X See patent family annex.

X Further documents are listed in the continuation of Box C.

International application No.
PCT/SE 2005/000156

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	EP 0336544 A1 (SMITHKLINE BECKMAN INTERCREDIT B.V.), 11 October 1989 (11.10.1989), Formula I	1-23
A	US 3362954 A (ALEXANDER R. SURREY ET AL), 9 January 1968 (09.01.1968), claims 1-21	1-23
A	WO 9843960 A1 (AMERICAN CYANAMID COMPANY), 8 October 1998 (08.10.1998), Formula I	1-23
	••••••••••••••••••••••••••••••••••••••	

Information on patent family members

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International application No. PCT/SE 2005/000156

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